

# AKROMID® B3 2 RM-D natural (3293)

Polyamide 6 + ABS  
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 2 RM-D natural (3293) is a nonreinforced, UV-stabilised polyamide 6 with limited moisture absorption and light inherent colour  
Applications are interior and exterior parts with very high impact strength in the automotive industry

| General Information                 |          |                           |                   |                 |
|-------------------------------------|----------|---------------------------|-------------------|-----------------|
| Additive                            |          | UV Stabilizer             |                   |                 |
| Features                            |          | Good Impact Resistance    |                   |                 |
|                                     |          | Low Moisture Absorption   |                   |                 |
| Uses                                |          | Automotive Applications   |                   |                 |
|                                     |          | Automotive Exterior Parts |                   |                 |
|                                     |          | Automotive Interior Parts |                   |                 |
| Appearance                          |          | Natural Color             |                   |                 |
| Resin ID (ISO 1043)                 |          | PA6 + ABS                 |                   |                 |
| Physical                            | Dry      | Conditioned               | Unit              | Test Method     |
| Density (23°C)                      | 1.07     | --                        | g/cm <sup>3</sup> | ISO 1183        |
| Spiral Flow                         | 55.0     | --                        | cm                | Internal Method |
| Molding Shrinkage                   |          |                           |                   | ISO 294-4       |
| Across Flow                         | 1.1      | --                        | %                 |                 |
| Flow                                | 0.90     | --                        | %                 |                 |
| Humidity Absorption - 62% RH (70°C) | 1.6      | --                        | %                 | ISO 1110        |
| Mechanical                          | Dry      | Conditioned               | Unit              | Test Method     |
| Tensile Modulus                     | 2000     | 1100                      | MPa               | ISO 527-2/1     |
| Tensile Stress (Yield)              | 47.0     | 30.0                      | MPa               | ISO 527-2/50    |
| Tensile Strain (Break)              | > 50     | > 100                     | %                 | ISO 527-2/50    |
| Flexural Modulus <sup>1</sup>       | 2100     | --                        | MPa               | ISO 178         |
| Flexural Stress <sup>2</sup>        | 70.0     | --                        | MPa               | ISO 178         |
| Impact                              | Dry      | Conditioned               | Unit              | Test Method     |
| Charpy Notched Impact Strength      |          |                           |                   | ISO 179/1eA     |
| -30°C                               | 15       | 17                        | kJ/m <sup>2</sup> |                 |
| 23°C                                | 70       | 85                        | kJ/m <sup>2</sup> |                 |
| Charpy Unnotched Impact Strength    |          |                           |                   | ISO 179/1eU     |
| -30°C                               | No Break | No Break                  |                   |                 |
| 23°C                                | No Break | No Break                  |                   |                 |

| Thermal                             | Dry           | Conditioned | Unit   | Test Method    |
|-------------------------------------|---------------|-------------|--------|----------------|
| Heat Deflection Temperature         |               |             |        |                |
| 0.45 MPa, Unannealed                | 100           | --          | °C     | ISO 75-2/B     |
| 1.8 MPa, Unannealed                 | 67.0          | --          | °C     | ISO 75-2/A     |
| Vicat Softening Temperature         | 112           | --          | °C     | ISO 306/B50    |
| Melting Temperature <sup>3</sup>    | 225           | --          | °C     | DIN EN 11357-1 |
| Flammability                        | Dry           | Conditioned | Unit   | Test Method    |
| Burning Rate <sup>4</sup> (1.00 mm) | < 100         | --          | mm/min | FMVSS 302      |
| Flame Rating (0.800 mm)             | HB            | --          |        | UL 94          |
| NOTE                                |               |             |        |                |
| 1.                                  | 2.0 mm/min    |             |        |                |
| 2.                                  | 2.0 mm/min    |             |        |                |
| 3.                                  | 10 K/min, DSC |             |        |                |
| 4.                                  | > 1 mm        |             |        |                |

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